

Subt. For, PTO-1449

INFORMATION DISCLOSURE  
IN AN APPLICATION

(Use several sheets if necessary)

Docket Number  
112020.128US2  
NAN-5Application Number  
10/824,679Applicant  
Rueckes, Thomas, et al.Filing Date  
April 15, 2004Group Art Unit  
2818

Sheet 1 OF 33

## U.S. Patent Documents

EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
hy	5,346,683	09/13/94	Green et al.	423	447.2	
	5,424,054	06/13/95	Bethune et al.	423	447.2	
	5,456,986	10/10/95	Majetich et al.	428	403	
	5,482,601	01/09/96	Ohshima et al.	204	173	
	5,547,748	08/20/96	Ruoff et al.	428	323	
	5,626,812	05/06/97	Ebbesen et al.	264	248	
	5,716,708	02/10/98	Lagow	428	408	
	5,753,088	06/19/98	Olk	204	173	
	5,780,101	07/14/98	Nolan et al.	427	216	
	5,903,010	05/11/99	Flory et al.	257	24	
	5,925,465	07/20/99	Ebbesen et al.	428	408	
	5,928,450	07/27/99	Russell	156	169	
	5,946,930	09/07/99	Anthony	62	293	
	5,973,444	10/26/99	Xu et al.	313	309	
	5,985,446	11/16/99	Lagow	428	367	
	5,993,697	11/30/99	Cohen et al.	252	502	
	6,031,711	02/29/00	Tennent et al.	361	303	
	6,060,724	05/09/00	Flory et al.	257	24	
	6,063,243	05/16/00	Zettl et al.	204	164	
	6,083,624	07/04/00	Hiura	428	408	
	6,105,381	08/22/00	Ghoshal	62	259.2	
	6,136,160	10/24/00	Hrkut et al.	204	192.16	
	6,146,227	11/14/00	Mancevski	445	24	
	6,156,256	12/05/00	Kennel	264	461	
	6,183,714 B1	02/06/00	Smalley et al.	423	447.3	
	6,203,814 B1	03/20/01	Fisher et al.	424	443	
	6,203,864 B1	03/20/01	Zhang et al.	427	592	
	6,221,330 B1	04/24/01	Moy et al.	423	447.3	
	6,231,744 B1	05/15/01	Ying et al.	205	324	
hy	6,231,980 B1	05/15/01	Cohen et al.	428	402	

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DATE CONSIDERED

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12/2004

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Subt. For, PTO-1449				Docket Number 112020.128US2 NAN-5		Application Number 10/824,679	
<b>INFORMATION DISCLOSURE IN AN APPLICATION</b>  <i>(Use several sheets if necessary)</i>				Applicant Rueckes, Thomas, et al.			
				Filing Date April 15, 2004		Group Art Unit 2818	
Sheet	2	OF	33				

U.S. Patent Documents						
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
hy	6,239,547 B1	05/29/01	Uemura et al.	313	495	
	5,196,396	03/23/93	Lieber	505	1	
	5,252,835	10/12/93	Lieber et al.	250	492.1	
	5,840,435	11/24/98	Lieber et al.	428	698	
	5,897,945	04/27/99	Lieber et al.	428	323	
	5,997,832	12/07/99	Lieber et al.	423	249	
	6,036,774	03/14/00	Lieber et al.	117	105	
	6,159,742	12/12/00	Lieber et al.	436	164	
	6,190,634 B1	02/20/01	Lieber et al.	423	439	
	5,590,078	12/31/96	Chatter	365	189.01	
	5,799,209	08/25/98	Chatter	395	876	
	5,838,165	11/17/98	Chatter	326	38	
	6,108,725	08/22/00	Chatter	710	56	
	6,138,219	10/24/00	Soman et al.	711	149	
	6,212,597 B1	04/3/01	Conlin et al.	711	105	
	6,237,130 B1	05/22/01	Soman et al.	716	10	
	4,853,893	08/01/89	Eaton, Jr. et al.	365	145	
	4,888,630	12/19/89	Paterson	357	23.5	
	5,198,994	03/30/93	Natori	365	145	
	5,444,421	08/22/95	Carroll et al.	331	111	
	5,479,172	12/26/95	Smith et al.	342	51	
	5,517,194	05/14/96	Carroll et al.	342	50	
	5,521,602	05/28/96	Carroll et al.	342	50	
	5,533,061	07/02/96	Smith et al.	375	334	
	5,553,099	09/03/96	Carroll et al.	375	334	
	5,608,246	03/04/97	Yeager et al.	257	295	
	5,626,670	05/06/97	Varshney et al.	117	7	
	5,802,583	09/01/98	Yeager et al.	711	152	
	5,850,089	12/15/98	Varshney et al.	257	295	
hy	5,850,231	12/15/98	Orimoto et al.	345	507	

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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	6,128,214	10/03/00	Kuekes et al.	365	151	
	6,159,620	12/12/00	Heath et al.	428	615	
	6,198,655 B1	03/06/01	Heath et al.	365	151	
	5,198,390	03/30/93	MacDonald et al.	437	203	
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	5,426,070	06/20/95	Shaw et al.	437	203	
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	5,719,073	02/17/98	Shaw et al.	437	228	
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	5,878,840	03/09/99	Tessum et al.	182	229	
	5,914,553	06/22/99	Adams et al.	310	309	
	5,939,785	08/17/99	Klonis et al.	257	729	
	6,051,866	04/18/00	Shaw et al.	257	417	
	6,259,277 B1	07/10/01	Tour et al.	326	136	
	5,640,343	06/17/97	Gallagher et al.	365	171	
	5,650,958	06/22/97	Gallagher et al.	365	173	
	5,793,697	08/11/98	Scheuerlein	365	230.07	
	5,841,692	11/24/98	Gallagher et al.	365	173	
	5,930,164	07/27/99	Zhu	365	158	
	5,946,228	08/31/99	Abraham et al.	365	173	
	6,052,263	04/18/00	Gill	360	113	
	6,072,718	06/06/00	Abraham et al.	365	173	
	6,104,633	08/15/00	Abraham et al.	365	171	
	6,166,948	12/26/00	Parkin et al.	365	173	
	6,219,212 B1	04/17/01	Gill et al.	360	324.2	
✓	4,701,842	10/20/87	Olnowich	364	200	
ay	4,985,871	01/15/91	Catlin	365	230.06	

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	NAME	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
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	5,586,286	12/17/96	Santeler et al.	395	432	
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	5,875,451	02/23/99	Joseph	711	105	
	5,887,272	03/23/99	Sartore et al.	711	105	
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	6,049,856	04/11/00	Bolyn	711	168	
	6,088,760	07/11/00	Walker et al.	711	104	
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	6,233,665 B1	05/15/01	Bolyn	711	168	
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hy	4,876,667	10/24/89	Ross et al.	365	113	

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	0 665 187 B1	12/29/97	EP				
	0 989 579 A3	03/29/00	EP				
an	0 945 402 A1	09/29/00	EP				

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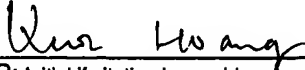
Foreign Patent Documents							
EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLA SS	TRANSLATION	
						YES	NO
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	WO 99/58748	11/18/99	PCT				
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	WO 97/31139	08/28/97	PCT				
	WO 98/39251	09/11/98	PCT				
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hy	0 688 618 A2	08/23/95	EP				

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EXAMINER INITIAL	DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUBCLA SS	TRANSLATION
						YES NO
hy	0 269 225 A2	06/01/88	EPO			
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✓	0 315 392 A2	05/10/89	EPO			
an	0 315 392 A3	05/10/89	EPO			

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	A2	"Double Sided 4Mb SRAM Coupled Cap PBGA Card Assembly Guide." International Business Machines Corp. (IBM), 1998.
	A3	Tyagi <i>et al.</i> "A 130nm Generation Logic Technology Featuring 70nm Transistors, Dual Vt Transistors and 6 Layers of Cu Interconnects." Portland Technology Development.
	A4	"Preliminary: 8Mb (256Kx36 & 512Kx18) and 4Mb (128Kx36 & 256Kx18) [IBM0418A8CBLBB, IBM0418A4CBLBB, IBM0436A8CBLBB, IBM0436A4CBLBB]." International Business Machines Corp. (IBM), 1998.
	A5	Wei, Chengyu <i>et al.</i> "Temperature and Stain-Rate Dependent Plastic Deformation of Carbon Nanotube."
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	A7	Dipert, Brian. "Exotic Memories, Diverse Approaches." EDN Magazine. April 26, 2001, 56-70.
	A8	Duan, Xiangfeng. "Indium Phosphide Nanowires as Building Blocks for Nanoscale Electronic and Optoelectronic Devices." Nature (2001); 409: 66-69.
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✓	A11	Callaby, D. Roy <i>et al.</i> "Solid State Memory Study Final Report." National Media Lab, Feb. 1994.
an	A12	Cui, Yi. "Doping and Electrical Transport in Silicon Nanowires." The Journal of Physical Chemistry B (2000); Vol. 104, No. 22: 5213-5216.

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4	A13	Li, Mingtao <i>et al.</i> "Direct Three-dimensional Patterning Using Nanoimprint Lithography." <i>Applied Physics Letters</i> (2000); Vol. 78, No. 21: 3322-3324.
	A14	"8 Mb Synchronous Communication SRAM (IBM0418A86LQKA, IBM0418A86SQKA, IBM0436A86IQKA, IBM436A86SQKA)." International Business Machines Corp. (IBM), 1999.
	A15	Dipert, Brian. "Memory Cards: Designing with a Full Deck." <i>EDN Magazine</i> . May 25, 2000.
	A16	Schönenberger, Christian <i>et al.</i> "Physics of Multiwall Carbon Nanotubes." <i>Physics World</i> . April 4, 2000.
	A17	Whatmore, Roger W. "Nanotechnology." <i>Ingenia</i> . February, 2000.
	A18	"Nanochip NC800SX, 0.8 Gbyte Molecular Memory IC (R/W), Nanochip NC200SX, 0.2 Gbyte Molecular Memory IC (R/W), Nanochip NCM4510SX, Molecular Array Read/write Engine, Low Voltage Thermal Actuated, Dynamic Media Series M2, Nanochip NC4525DX, A/D-D/A Interface, Preliminary Specifications, Advance Information, (C) 1996-2000 Nanochip Document NCM2230500."
	A19	Odom, Teri Wang <i>et al.</i> "Atomic Structure and Electronic Properties of Single-Walled Carbon Nanotubes." <i>Nature</i> (1998); 391: 62-64.
	A20	Ouyang, Min. "Atomically Resolved Single-Walled Carbon Nanotube Intramolecular Junctions." <i>Science</i> (2001); 291: 97-100.
	A21	Odom, Teri Wang <i>et al.</i> "Magnetic Clusters on Single-Walled Carbon Nanotubes: The Kondo Effect in a One-Dimensional Host." <i>Science</i> (2000); 290: 1549-1552.
	A22	Wong, Eric <i>et al.</i> "Nanobeam Mechanics: Elasticity, Strength, and Toughness of Nanorods and Nanotubes." <i>Science</i> (1997); 277: 1971-1975.
	A23	Hu, Jiangtao <i>et al.</i> "Controlled Growth and Electrical Properties of Heterojunctions of Carbon Nanotubes and Silicon Nanowires." <i>Nature</i> (1999); 399: 48-51.
	A24	Rueckes, Thomas <i>et al.</i> "Carbon Nanotube-Based Nonvolatile Random Access Memory for Molecular Computing." <i>Science</i> (2000); 289: 94-7.
	A25	Kim, Philip <i>et al.</i> "Nanotube Nanotweezers." <i>Science</i> (1999); 286: 2148-2150.
	A26	Huang, Yu <i>et al.</i> "Directed Assembly of One-Dimensional Nanostructures into Functional Networks." <i>Science</i> (2001); 291: 630-33.
✓	A27	Cui, Yi <i>et al.</i> "Functional Nanoscale Electronic Devices Assembled Using Silicon Nanowire Building Blocks." <i>Science</i> (2001); 291: 851-53.
m	A28	Oullette, Jennifer. "Exploiting Molecular Self-Assembly." <i>The Industrial Physicist</i> . American Institute of Physics, December 2000.

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	4,378,629	4/5/83	Bozlev et al.	29	580	
	4,495,511	1/22/85	Yoder	357	22	
	4,510,016	4/9/85	Chi et al	156	643	
	4,673,474	06/16/87	Ogawa	204	157.64	
	4,707,197	11/17/87	Hensel et al.	437	189	
	4,758,534	7/19/88	Derkits Jr. et al.	437	89	
	4,901,121	2/13/90	Gibson et al.	357	15	
	4,903,090	2/20/90	Yokoyama	357	22	
	4,939,556	07/03/90	Eguchi et al.	357	4	
	5,010,037	4/23/91	Lin et al.	437	200	
	5,032,538	7/16/91	Bozler et al.	437	83	
	5,057,883	10/15/91	Noda	357	22	
	5,089,545	02/18/92	Pol	524	17	
	5,155,561	10/13/92	Bozler et al.	357	22	
	5,168,070	12/1/92	Luth	437	31	
hy	5,175,597	12/29/92	Cachier et al.	257	267	

Foreign Patent Documents							
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						YES	NO
hy	WO	10/01/98	WIPO				
	WO	02/24/00	WIPO				
	WO	03/20/00	WIPO				
	WO	04/06/00	WIPO				
	WO	8/17/00	WIPO				
hy	JP 11-	01/19/99	Japan				

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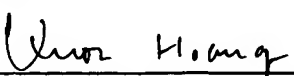
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	5,453,970	09/26/95	Rust et al.	396	176	
	5,475,341	12/12/95	Reed	327	566	
	5,563,424	10/8/96	Yang et al	257	40	
	5,589,692	12/31/96	Reed	257	23	
	5,739,057	04/14/98	Tiwari et al.	438	172	
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	5,751,156	05/12/98	Muller et al.	324	699	
	5,847,565	12/08/98	Narayanan	324	322	
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	6,445,006 B1	09/03/02	Brandes, et al	257	76	
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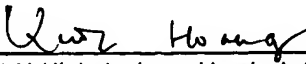
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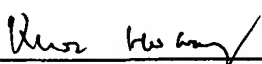
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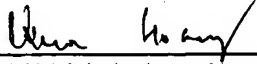
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				Applicant <b>Rueckes, Thomas, et al.</b>			
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